

WHAT IS CLAIMED IS:

1. A recording apparatus comprising:
recording means for recording identification information of a recording medium in a predetermined area of said loaded recording medium; and
a recording controller for performing control such that said identification information is recorded at a line density differing from that of another piece of information recorded in another area.
2. The recording apparatus according to Claim 1, wherein said recording medium is a disk-shaped recording medium, and said predetermined area is formed in an inner radial portion adjacent to a lead-in area.
3. The recording apparatus according to Claim 1, further comprising a rotation controller for controlling the rotation driving of said recording medium,
wherein said recording controller is capable of performing recording control of said identification information in a state in which said recording medium is being rotated at a speed differing from the rotational speed in a case where said other information is recorded.

4. The recording apparatus according to Claim 1, further comprising a clock generator for generating a clock in a case where recording is performed on said recording medium,

wherein said recording controller is capable of performing recording control of said identification information in accordance with said clock having a frequency differing from that in a case where said other information is recorded.

{ 5. A recording apparatus comprising:

a recording head for recording information on a disk-shaped recording medium which is loaded;

a spindle motor for driving said disk-shaped recording medium to rotate; and

a recording controller for performing control such that the identification information of said recording medium is recorded, in a predetermined area of said disk-shaped recording medium, at a line density differing from that of other information which is recorded in another area.

6. The recording apparatus according to Claim 5, wherein said predetermined area is an area formed in an inner radial portion adjacent to a lead-in area.

7. A recording medium, in which identification information having a line density differing from that of information recorded in another area is recorded in a predetermined recording area.

8. The recording medium according to Claim 7, wherein said recording medium is a disk-shaped recording medium, and said predetermined area is formed in an inner radial portion adjacent to a lead-in area.

9. The recording medium according to Claim 7, wherein said recording medium is a disk-shaped recording medium; from the inner radial portion, a program memory area for temporarily recording and holding the table-of-contents information of user data, a lead-in area where the information recorded in the program memory area is recorded is recorded, and a program area where the user data is recorded are provided; and said predetermined area is provided between said program memory area and said lead-in area.

10. A reading apparatus comprising:

reading means for reading identification information recorded in a predetermined recording area of a loaded recording medium;

a reading controller for performing reading control corresponding to a line density at which said identification information is recorded when said identification information is read;

reading determination means for determining whether or not said identification information could be read by predetermined reading control; and

type determination means for determining the type of said recording medium on the basis of the determination result of said reading determination means.

11. The reading apparatus according to Claim 10, wherein said recording medium is a disk-shaped recording medium, and said predetermined area is formed in an inner radial portion adjacent to a lead-in area.

12. The reading apparatus according to Claim 10, further comprising a rotation controller for controlling the rotational driving of said recording medium, wherein said reading controller can perform reading control of said identification information in a state in which said recording medium is being rotated at a speed differing from the rotational speed in a case where another piece of information is read.

13. The reading apparatus according to Claim 12, wherein said type determination means can determine the type of said recording medium on the basis of the number of rotations of said recording medium.

{ 14. A reading apparatus comprising:

reading means for reading identification information recorded in a predetermined recording area of a loaded recording medium;

a signal generator for generating a signal based on the period of information which is read from said recording medium;

a detector for detecting the period of a signal generated by said signal generator when said identification information is being read;

density determination means for determining a line density at which said identification information is recorded on the basis of the detection result of said detection means; and

type determination means for determining the type of said recording medium on the basis of the determination result of said density determination means.

15. The reading apparatus according to Claim 14, wherein said predetermined area is formed in an inner radial

portion adjacent to a lead-in area.

/ 16. A reading apparatus comprising:

a reading head for reading information recorded on a loaded recording medium;

a detector for detecting the recording line density of information recorded in a predetermined recording area of said recording medium in accordance with a reading signal of said head; and

type determination means for determining, on the basis of the detection result of said detector, the line density of recording medium identification information which is prerecorded in an area provided in an inner radial portion of a lead-in area of said recording medium and for determining the type of said recording medium.

/ 17. A recording medium determination method comprising:

an access step for accessing a predetermined recording area of a loaded recording medium;

a reading control step for performing reading control corresponding to a line density of identification information recorded in said predetermined recording area;

a reading step for reading said identification information in a state in which said reading control is

being performed; and

a type determination step for determining the type of recording medium on the basis of whether or not said identification information could be read.

18. The recording medium determination method according to Claim 17, wherein said predetermined area is formed in an inner radial portion adjacent to a lead-in area.

19. The recording medium determination method according to Claim 17, wherein said reading control step is a step in which said recording medium is rotated at a speed differing from the rotational speed in a case where another piece of information is read.

20. The recording medium determination method according to Claim 19, wherein said type determination step is a step in which the type of said recording medium is determined on the basis of the number of rotations of said recording medium.

21. A recording medium determination method comprising:

an access step for accessing a predetermined recording area of a loaded recording medium;

a reading step for reading identification information recorded in said predetermined area;

a detection step for detecting the period of said identification information;

a line density determination step for determining a line density at which said identification information is recorded on the basis of said period; and

a type determination step for determining the type of said recording medium on the basis of said line density.

22. The recording medium determination method according to Claim 21, wherein said predetermined area is formed in an inner radial portion adjacent to a lead-in area.